

Data sheet

CSE-M24 | Embedded Serial to Ethernet Converter

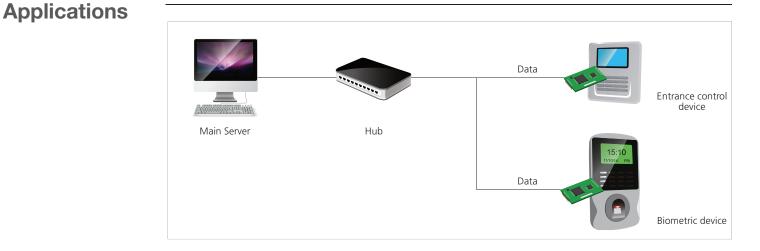


Overview

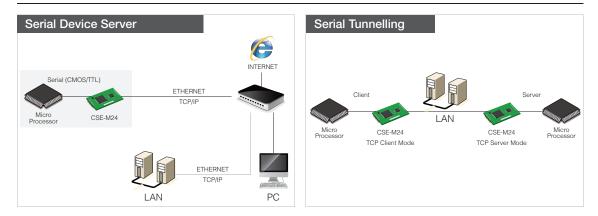
CSE-M24 is an embedded serial to Ethernet module which is pin compatible with EZL-410. This module basically provides conversion functions to remotely control and manage 4 serial devices over Ethernet. CSE-M24 is the perfect solution for those who plan to move forward to next generation Internet protocol, IPv6. This embedded serial to Ethernet comes preloaded with basic communication functions(TCP, UDP, etc.) along with a packet fragmentation separator so that it can be used diverse applications. This serial to Ethernet has a high speed(up to 460,800bps) UART port which can be extended to RS232/RS422/RS485 in accordance with users environment.

Features

- 4 x UART (3.3V level)
- 10/100Mbps Ethernet
- High speed UART (up to 460.8Kbps)
- IPv4/IPv6 dual stack
- Separator settings for packet fragmentation



System Diagram



Specifications

Serial Interface 4 x UART, 3.3V level with 5V tolerant input RXD, TXD, RTS (TXDE for RS485), CTS, GND 2 X 12 2mm pitch pin header X 2 Connector 2 X 12 2mm pitch pin header X 2 Serial Port Properties 300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff) Data Bits 8bits, 7bits with parity Parity None, Even, Odd, Mark, Space Stop Bit 1, 1.5, 2 Network Interface 10Base-T/100Base-TX Ethernet Ethernet Speed Auto Sense 1:1 or Cross-over Cable Auto Sense Simple External Circuit Required Software Functions Protocols IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 Protocols TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network Password for Configuring		Serial Physical Interface
RXD, TXD, RTS (TXDE for RS485), CTS, GND Connector 2 X 12 2mm pitch pin header X 2 Serial Port Properties Baudrate 300bps ~ 460,800bps (300bps ~ 230,400bps in RS485 and Xon/Xoff) Data Bits 8bits, 7bits with parity Parity None, Even, Odd, Mark, Space Stop Bit 1, 1.5, 2 Network Physical Interface 10Base-T/100Base-TX Ethernet Ethernet Speed Auto Sense 1:1 or Cross-over Cable Auto Sense Simple External Circuit Required Software Functions IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network	Serial Interface	4 x UART, 3.3V level with 5V tolerant input
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Network Interface Network Physical Interface Network Interface 10Base-T/100Base-TX Ethernet Ethernet Speed Auto Sense 1:1 or Cross-over Cable Auto Sense 1:1 or Cross-over Cable Auto Sense Simple External Circuit Required Software Functions IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network	Parity	None, Even, Odd, Mark, Space
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Network Interface 1:1 or Cross-over Cable Auto Sense Simple External Circuit Required Software Functions IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network	Network Interface	10Base-T/100Base-TX Ethernet
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Software Functions IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network		1:1 or Cross-over Cable Auto Sense
Protocols IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6 TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network		Simple External Circuit Required
Protocols TCP, UDP, IP, ICMP, ARP, TELNET DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network		Software Functions
DHCP, PPPoE, DNS, DDNS IP & MAC filtering - Restrict host or network	Protocols	IPv4/IPv6 dual stack, ICMPv6/TCPv6/UDPv6
IP & MAC filtering - Restrict host or network		TCP, UDP, IP, ICMP, ARP, TELNET
Security		DHCP, PPPoE, DNS, DDNS
Security Password for Configuring	Security	IP & MAC filtering - Restrict host or network
		Password for Configuring
TCP Server (T2S)		TCP Server (T2S)
Communication Mode TCP Client (COD)	Communication Mode	TCP Client (COD)
TCP Server/Client with AT command (ATC) - Patent		TCP Server/Client with AT command (ATC) - Patent
UDP Mode (U2S)		UDP Mode (U2S)
Separator settings for packet fragmentation	Additional Functions	Separator settings for packet fragmentation
Additional Functions TCP Server/Client Mode		TCP Server/Client Mode
Sending MAC address Option		Sending MAC address Option
Management		Management
ezManager Configuration and Monitoring Tool through Network and Serial	ezManager	Configuration and Monitoring Tool through Network and Serial
TELNET Telnet Login	TELNET	Telnet Login
AT Command Configuring in ATC mode - Patent	AT Command	Configuring in ATC mode - Patent
Supplementary Software		
ezManager Configuration Tool for Windows		5
ezVSP Serial to Network Virtual Driver for Windows		
ezTerm Simple TCP/IP Communication Test Tool	ezierm	
Dimension Size 70mm X 50mm X 9mm	Sizo	
Operating Environment		
Input Voltage DC 3.3V	Input Voltage	
Current Consumption 270mA typical		
Operating Temperature 0°C ~ +70°C		
-40°C ~ +85°C		-40°C ~ +85°C